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APPLICATION NO.	FIL	JING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/618,850	0	7/15/2003	Yukio Tanaka	0756-7177 4342		
31780	7590	07/07/2005		EXAMINER		
ERIC ROB	INSON		NHU, DAVID			
PMB 955 21010 SOUTHBANK ST.				ART UNIT PAPER NUMBER		
POTOMAC FALLS, VA 20165				2818	2818	
				DATE MAILED: 07/07/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)					
	10/618,850		TANAKA ET AL.	(ω)				
Office Action Summary	Examiner		Art Unit					
	David Nhu		2818					
The MAILING DATE of this communication Period for Reply	appears on the	cover sheet with the c	orrespondence add	lress				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no even n. a reply within the statute triod will apply and will latute, cause the applic	t, however, may a reply be time ony minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered timely, the mailing date of this cor D (35 U.S.C. § 133).	nmunication.				
Status								
1) Responsive to communication(s) filed on 1	5 July 2003.							
3) Since this application is in condition for allo								
Disposition of Claims								
4) ⊠ Claim(s) <u>1-37</u> is/are pending in the applicate 4a) Of the above claim(s) <u>1</u> is/are withdrawn 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>2-37</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	n from considera							
Application Papers								
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to	the drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119	•							
12) ☑ Acknowledgment is made of a claim for force a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority docum 2. ☑ Certified copies of the priority docum 3. ☐ Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been nents have been priority documen ureau (PCT Rule	received. received in Applicati nts have been receive 17.2(a)).	<i>09</i> /43 <i>8</i> , ion No. <u>10/295,886</u> ed in this National s	j. `				
		David	Da					
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>02</u>. 	B/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	p-152)				

DETAILED ACTIONS

Double Patenting

Claims 2-37 of the application No. 10/618, 850 is rejected under the judicially created doctrine of obviousness-type double patenting over claims 1- 28 of U. S. Patent No. 6,635,505 B2 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application and similar language recited in the patent claims obviously depict a similar method having either same steps and/or same materials, and such is also disclosed in both the patent and the instant application.

Claims Objection

2. claims 8, 20, 32, "wherein an edge of the gate insulating film is aligned with a boundary between the second impurity regions and the third impurity regions" are not described/supported in the specifications.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 2-3, 8-9, 14-15, 20-21, 26-27, 32-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Minato et al (4,616,243).

Regarding claims 2, 8, 14, 20, 26, 32, Minato, (see figures 1-10, col. 1-10, col. 8, lines 30-61), teaches a method of manufacturing a circuit comprising: forming first and

second semiconductor layers over a substrate; forming a gate insulating film over the first and second semiconductor layers; forming gate electrodes over the first and second semiconductor layers with the gate insulating film interposed; introducing a first impurity element into portions of the first and second semiconductor layers so as to form first impurity regions; introducing a second impurity element into portions of the first and second semiconductor layers so as to form second impurity regions in contact with the first impurity regions; introducing a third impurity element into portions of the first semiconductor layer so as to form third impurity regions in contact with the second impurity regions; forming wirings so as to be in contact with the third impurity regions (see col. 8, lines 30-61).

Regarding claims 3, 9, 15, 21, 27, 33, Minato also teaches the third impurity regions is higher than the second impurity regions, and a concentration of the second impurity regions is higher than the first impurity regions (see col. 8, lines 42-45).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Tamaka'505, Nishimoto'751, Ishii'695, Iwashita'450, Ishijima'718, Momose'020 are cited as of interest.
- 6. A shortened statutory period for response to this action is set to expired 3 (three) months from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).
- 7. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on

Art Unit: 2818

Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the patent application information retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dan De

David Nhu

July 7, 2005